IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TITLE: METHOD FOR MANUFACTURING VERY LOW ROUGHNESS ELECTRODEPOSITED COPPER FOIL AND ELECTRODEPOSITED COPPER FOIL MANUFACTURED THEREBY

Amendment A: CLAIM AMENDMENTS

Claims 1 - 15 (canceled).

16. (new) A method for manufacturing an electrodeposited copper foil comprising:

forming an electrolyte solution containing a sulfuric acid and a copper ion and a chloride ion;

adding an additive to said electrolyte solution, said additive consisting of 6ppm to 100ppm of gelatin and 5ppm to 50ppm of hydroxyethyl cellulose and 0.05ppm to 20ppm of bis(sodiumsulfopropyl)disulfide;

submerging a rotating drum and an anode plate in said electrolyte solution, said anode plate having a curved shape and spaced by a distance from an outer surface of said drum; and applying a negative current to said drum and a positive current to said anode plate so to deposit the copper foil onto said outer surface of said drum.

- 17. (new) The method of Claim 16, said bis(sodiumsulfopropyl)disulfide being an amount of between 0.5ppm to 3ppm.
 - 18. (new) The method of Claim 16, the deposited copper foil having a matte side and a shiny

side, said matte side having a roughness greater than a roughness of said shiny side.

- 19. (new) the method of Claim 16, said gelatin having a molecular weight of greater than 10000.
- 20. (new) The method of Claim 16, said sulfuric acid being an amount of 50 to 200 g/l, said copper ion being in an amount of 30 to 150 g/l, said chloride ion of 200mg/l.
- 21. (new) The method of Claim 16, said electrolyte solution being at a temperature of between 20 and 80°C.
- 22. (new) The method of Claim 16, said electrolyte having a current density of between 20 and 150A/dm^2 .